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NOTE

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*Secondary Education; *Teaching Guides

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Title III; *Project I C E

ABSTRACT

This music education guide, for use in grades 10-12, is one of a series of guides, K-12, that were developed by teachers to help introduce environmental education into the total curriculum. The guides are supplementary in design, containing a series of episodes (minilessons; that reinforce environmental concepts and theories by developing ecology-related aesthetic values. The episodes are built around 12 major environmental concepts that form a framework for each grade or subject area, as well as for the entire K-12 program. Although the same concepts are used throughout the K-12 program, emphasis is placed on different aspects of each concept at different grade levels or in different subject areas. This guide focuses on aspects such as acoustics and concert programing. Most of the 12 concepts are covered in one of the episodes contained in the guide. Further, each episode offers subject area integration, subject area activities, interdisciplinary activities, cognitive and affective behavioral objectives, and suggests references and resource materials useful to teachers and students. (Author/TK)

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10-12

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Serving All Schools in Cooperative Educational Service Agencies 3-8-9 Wisconsin Area "B" Regional Project

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Project Administrator John F. David Kenneth Poppy Coordinator, C.E.S.A. #8

In 1969, the First Environmental Quality Education Act was proposed in the United States Congress. At the time of the introduction of that legislation, I stated:

"There is a dire need to improve the understanding by Americans of the ominous deterioration of the Nation's environment and the increasing threat of irreversible ecological catastrophe. We must all become stewards for the preservation of life on our resourcedeficient planet."

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brought the question of the envi-ronmental quality of this nation continuing degradation of our air and water, and the discussion over tics but of the survival of the to a concern not merely of aestheagainst pollution have all quate energy resources, the human race. the economic costs of the war passed by the Congress, much has The intensive concern over adefor the Nation's young people. reinforce the great need for efhappened in the United States to Environmental Education Act was fective environmental education In the three years since the

The intense interest by the public in the quality of our lives

as affected by the environment clearly indicates that we cannot just use incentives and prescriptions to industry and other sources of pollution. That is necessary, but not sufficient." The race between education and catastrophe can be won by education if we marshall our resources in a systematic manner and squarely confront the long-term approach to saving our environment through the process of education.

As the incessant conqueror of nature, we must reexamine our place and role. Our world is no longer an endless frontier. We constantly are feeling the backlash from many of our ill-conceived efforts to achieve progress.

Rachel Carson's theme of "reverence for life" is becoming less mystical and of more substance as our eyes are opened to much of the havoc we have wrought under the guise of progress. A strong commitment to an allembracing program of environmental education will help us to find that new working definition of progress that is a pre-requisite to the continued presence of life on this planet.

Senator Gaylord Nelson

PREFACE

and practical applications taught in other subjects provides a developing in the students, ecology-related aesthetic values. The music program as a reinforcement of the concepts, theories, further service to the cause of ecology. Music as an art form best serves the purposes of ecology by

contrived use of this guide, but, rather, let it stimulate thinking and serve as both a reference point and a point of departure for music and classroom teachers. to be explored. concerns. These lesson plans and episodes are suggested avenues involved in, and a realization of the urgency of ecological The music teacher must have an awareness of, a desire to become Further, our hope is that teachers avoid a

non-polluting activity, depleting little or none of our natural resources while offering satisfaction for deeper human needs. For us, music is a vocation. For many, it is an avocation or

ACKNOWL EDGEMENT

Project I-C-E Environmental Education K-12 series: The interest and dedicated effort of the following teachers from Wisconsin Area "B" has led to the development of the

Kon Coniliard, Hortonville Renald Conradt, Shiocton Willard Colline, Crivitz Bill Cole, Gillett Merle Colburn, Algema Sathryn Colburn, Algoma Lee Clasen, Luxemburg-Casca Bob Church, Little Chute Thisford Christensen, Winner enne Gailen Braun, Lena William Bohne, Kimberly Barbara Lan Bebrowitz, Green Bav Merica Blonde, Shawano Carmella Blecha, Green Bay Peter Siolo, W. Defere Cillian Bergest Seymour Marie Below, Clintonville William Behring, Lourdes, Oshkosh Webert Becker, Fox Tallev Luth., Appl. William Baggs, Shilocton Dr. Harold Baeten, St. Norbert, DePere Angela Anthony, Gibraltar Walter Anderson, Wausaukee Joan Alioto, Denmark Laura Berken, Deanto Fallis Lausen-Benter, Gillett David Self, Necnah Barid Bartz, Sturgeon Bay Lowell Baltz, Weyanwega John Anderson, Peshtigo James Anderson, Green Bay D. C. Aderhold, Bonduel Joan Charnetski, Sevastopol Bennie Beamer, Coleman Anthony Balistreri, Howard-Suamico Peggy Anderson, Green Bay Eugene Anderson, Peshtigo Mary Anders, Winneconne

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Needs I wat hitch Wolf Robert Mever, Meenah Priscilla Mereness, Wrightstown Rick Monard, Little Chute Margaret McMahon, Little Chute Sathleen M. Mahom, Green Bay "In garat McCarby blige, White lake Mary Mathis, Namark Twird Lien, Appleton Har 12 Lie Barat, St. Martin Luth., Clint. Fithing Tebress, Occates Mar Base Deficinte, St. John High, L. Chute States P. Lapacz, Resurrection, G.B. The medical factor and the second sec Sr. Mary Alyce Lach, Cathedral, G.B. Ervin Kundsh, Marinette Pritz Krucker, Oshkosh Bred Krueger, Osikosi Lyan Kecha, Pulaski Frank Koehn, Resurrection, G.B. Everett Klinzing, New London Bernadyne King, Neenah james Krenek, Coleman Indu Meliown, Orean Bay Serie Teleberki, Howard-Suamice Sometimes of the second THE RESERVE OF THE PARTY. lim Krueger, Winneconne Jack Kolvisto, Green Bay Douglas Koch, Cath. Cent., Marinette Joseph Materia, Algoria times Mikl. Stargeon bay buly Landth, St. Soo. Clintonville tr. Anna Mar, St. Phillips, G. B. has had ber, kiliwasi enen Total I March, Bandwel A Amaria Laber, Hertonville of Leitelt, Street Bar ort for a Youngh

Connie Peterson, St. Martin Luth., Clint. Sr. Perethy Marie Tapa. Navier. Appl. Carl Paquet, Denmark William Schaff, St. Joseph, Appleton Edwin Schaefer, Kankanna Flmor Schabo, Niagara Christine Frector, Wausaukee Rosemarie Rafath, Clintenville Don Olsen, Shawano Wendell Mitchell, Green Bay Mary Margaret Samer, Memasha Roger Rozmowski, Southern Door Kathren Sower Appleton Jack Researchal, Leardes, Osbkosh Ben Roloff, Howard-Smarker Clades Roland, Little Wolf Corden Robleff, Oshketh William Roberts, Sturpeon Bay Willard Poupere, Little Chute Virginia Pomust, White Lake Gene Ploetz, Kankauna Paul Plantice, Green Bay AnnaMay Peters, Florence David Paulus, Neonah Arthur Paulson, Ocente Falls Ed Patschke, Menasha Neil Olsen, Pulaski Mildred O'Connell, Green Bay Dorothy O'Brien, Wausaukee Jim Nuthals, Lourdes, Oshkosh Arnold Neuzil, Shiocton Lyle Nahley, Green Bay Gloria Morgan, Linsmeier, G.B. Sharon Moore, Pulaski David Miskulin, Goodman Richard Minten, W. DePere Mark Roddel, St. Martin lath., Clint. Marie Frochaska, Lena George Pederson, Southern Door Terry Otto, St. John Luth., Suring Jean Marie O'Malley, Green Bay Eack Rickaby, Hortonville

Dallas Weiber, Kaukhuna Warren Wolf, Simberly Cathy Narnack, While lake Janet Serrihn, Sevastopel Tom Wevers, Catholial, Green Bay Ruth Windhuller, sreep Fat Lila Kertsch, St. Marsont Marv. Versi Susan Weller, error Bar Rath Ward, Crivitz Marion William Cillet Mary Wadrings!, Howevel-Sumice Jack Twell Treed in Carel Trimberger. Kewlinger Clarence Troptlage, in them John Torgerson, Kewmere Nancy Teles, Newall Richard Switzer, Tittie chute Judy Sweeder Describ Ginger Stavetraa, Osbkosh Bill Stillion, Showers Deris Stehr. Mt. Colvary luth., Kicherly Wayne Splitter then the offer Lee Smell, Little Cate Mary Smith, Breen Bay Peter Skroch, Colate Walls Calvin Sicerist, Hearti-Suamice Carolyn Strehr, New London Allan Schuh, Pulaski Ron Schreder, Care Larry Schneider, Defere Greg Schmitt, dathedrsl. 6.5. Arthur Scholk, Suring Kalph Wohlt. New Lendon Tim Van Suctoren, Bliv Vare, Argisten Jackie Thirv. Bennark Beverly Splitterber, Crees Tax Bruce Sennemberg, Neemah David Seltesz, Crivitz ames Wira. Pefete

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DIRECTIONS FOR USING THIS GUIDE

This guide contains a series of episodes (mini-lesson plans), each containing a number of suggested in and out of class learning activities. The episodes are built around 12 major environmental concepts that form a framework for each grade or subject area, as well as for the entire K-12 program. Further, each episode offers subject area integration, multi-disciplinary activities, where applicable, both cognitive and affective behavioral objectives and suggested reference and resource materials useful to the teacher and students.

- in design--it is not a complete course of study, nor is its arrangement sequential. You can teach environmentally within the context of your course of study or units by integrating the many ideas and activities suggested.
- 2. The suggested learning activities are departures from regular text or curriculum programs, while providing for skill development.

- objectives, activities and resources can conveniently be included in your unit.
- 4. All episodes can be adapted, modified, or expanded thereby providing great flexibility for any teaching situation.
- area has its own topic or unit emphasis, inter-grade coordination or subject area articulation to avoid duplication and overlap is highly recommended for any school or district seeking effective implementation.

This total K-12 environmental education series is the product of 235 classroom teachers from Northeastern Wisconsin. They created, used, revised and edited these guides over a period of four years. To this first step in the 1,000 mile journey of human survival, we invite you to take the second step--by using this guide and by adding your own inspirations along the way.

PROJECT I-C-E TWELVE MAJOR ENVIRONMENTAL CONCEPTS

- 1. The sun is the basic source of energy on earth. Trans-formation of sun energy to other energy forms (often begun by plant photosynthesis) provides food, fuel and power for life systems and machines.
- 2. All living organisms interact among themselves and their environment, forming an intricate unit called an ecosystem.
- 3. Environmental factors are limiting on the numbers of organisms living within their influence. Thus, each ecosystem has a carrying capacity.
- 4. An adequate supply of clean water is essential to life.
- An adequate supply of clean air is essential for life.
- 6. The distribution of natural resources and the interaction of physical environmental factors greatly affect the quality of life.

- transportation, economic conditions, population growth and increased leisure time influence changes in land use and population densities.
- 8. Cultural, economic, social, and political factors determine man's values and attitudes toward his environment.
- 9. Man has the ability to manage, manipulate and change his environment.
- 10. Short-term economic gains may produce long-term environmental losses.
- 11. Individual acts, duplicated
 or compounded, produce sig nificant environmental
 alterations over time.
- 12. Each person must exercise stewardship of the earth for the benefit of mankind.

A "Concept Rationale" booklet and a slide/tape program "Man Needs His Environment" are available from the I-C-E RMC to more fully explain these

TABLE OF CONTENTS

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	Half-time Show	Half-time Show	Choral Selections on Ecology	Concert Programming	Care of Uniforms	tics	tics	
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Publications:

"The Obnoxious Decibel", E.S.E.A. Title III Project, Nova H.S., Florida, ICE RMC

Audio-Visual:

Closed circuit TV Tape recorder

School concerts

Community:

Civic concerts

Dances (school & community)

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- Discuss effect on intonation.

 Discuss effect on mental attitude toward performance:
- a. In the large area
- b. In the smaller area
- **c** In the acoustically-treated facility
- Relate the carrying capacity of a musical environment
- <u>ب</u> acoustical treatment on musical performance, using at to the carrying capacity of our natural environment. Students will write a report analyzing the effect of least three criteria.
- Experiment can be attempted with various sections of the band.



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CONTINUED OR ADDED LEARNING ACTIVITIES

Publications:

Noise Pollution, O'Donnell and Lauaroni, Addison-Wesley Pub. Co., Inc., page 76

Audio-Visual:

Tape recorder Phonograph

Community:

Rlankets
Dr.pes
Rugs
Acoustical tiles
Boxes





S. E A. Title III PROJECT I-C-E 59-70-0135-4 Decemberate steamership to property caring for unifor List four points care. Statis Used: Affective: Cognitive: BEHAVIORAL OBJECTIVES CONCEPT NO. Environmental: ORIENTATION Tablic speaking Interviewing the soarch Color of a callega Federant making To be the state of the period of uniform Use ŧ and Care Stewardship in-Class: . T \bigcirc : • か . uniform care: other band students in Characteristics of not to violate them. ship rights and how regard to the stewardrecommendations to Have students make oral wear and care of uniform Make a judgment on the 2. Have a student with band in its present state. *ب* of the uniform by: uniform research the use Proper maintenance of all accessories. prossing. All buttons on. Proper cleaning and No tears in seams. Checking past Proper condition. Proper banging. who made altera-Contacting past students paren uniform. of band who used Asking other members tions. inventory and rental forms. STUDENT-CENTERED LEARNING ACTIVITIES SUBJECT Integrated with: TOPIC/UNIT parents Care of Uniforms Music - Band and Chorus ***** Outside or Community: ₿. High school students. Teachers (past music). Parents.

(Continued)

Community:	Audio-Visual:	Publications:	SUCCESTED RESOURCES
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Publications:

Maleeki Music Inc. Catalog, Division Avenue, S., Grand Rapids, MI 49507 Schmitt Music Catalog, 88 S. Carl Fischer of Chicago Catalog, Sioux City Music Supply Catalog, 316 Commerce Building, Sioux J.W. Pepper of Detroit Catalog, City, Iowa 51101 Illinois 60604 312 S. Wabash Avenue, Chicago, 10th Street, Minneapolis, MI Audio-Visual: Troy, MI.

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- I Heard a Forest Praying, DeRose

- To Spring, J.S. Bach/Gordon Ah, Lovely Springtime, Hassler-Knight Green Fields, Cilkysen, Dehr, Miller, Hayward
- Roots and Leaves, Williams
- Loveliest of Tree, Mechem Springtime, Hindemith
- Seaweed, Bright
- America the Beautiful, Peery
- D. Appropriate program notes are written by the students our resources. to impress upon the audience the necessity to preserve
- Student-written narration.

Community:

CHORAL SELECTIONS ON ECOLOGY

- One Candy Wrapper in the Street, S.A.T.B. Dorothy Smith, Shawnee Press, Inc.
- * Pollution Tom Lehrer, Arr. Frank Metis, S.A.T.B., Alfred Music Co.
- * Change Ain't Such An Easy Thing To Do Harold Bennett & Joe Fortune, S.A.T.B., Alfred Music Co.
 - In the Year 2525 S.A.T.B., Evan & Dexter, Carl Fischer Publisher, Chicago
 - Air Is Polluted Jardner, S.A.T.B., #660, Malecki Music, Inc.
- * Beautiful World Harold Barnett, Barbara Fried, S.A.T.B., Alfred Music Co.
- * The Wind of Life S.A.T.B., Carl Strommen, Saul Feldstein, Alfred Music Co.
 - Save An "N", Save An "R", Save A "G" (The Energy Song) S.A.T.B., Gerry Richelson and Malcolm Dodds Charter Publications, Inc. P. O. Box 850, Valley Forge, PA 19982
 - There's No Life On The Moon, S.A., T.B., or S.A.T.B. Arr. Hawley Ades, by David Mocklar, Shawnee Press
- * Available on one 33 1/3 Lp record from Alfred Music Co. Allen Alfred's Jazz Rock Series.
 - 10 Selections from Thoreau's 'Walden' Music & Lyrics by Les Ledo and Edna Lowis Arr. by William Sanford, S.A.T.B., \$.50 each.
 - Walden

- Within Without

- James Collins Shanty

- Reflections on a Reflection

- Travel
- Everybody Hears a Different Drummer
- Solitude
- Poem of Creation

from: Big 3 Music Corporation

- Do Your Own Thing

1350 Avenue of the

- Marlboro Road

Americas New York, NY 10019

Additional Possibilities:

"Living Together - Growing Together"
"On A Clear Day" (You Can See Forever)

"Down By The River", Albert Hammond
"Big Yellow Taxi", Joni Mitchell
Note: Teacher may want to contact local radio stations, library or students for more ideas.

	Environmental:	Integrated with:	
	CONCEPT NO. 1 - Energy	SUBJECT Music	c - Marchine Band
	ORIENTATION Sun and Season	TOPIC/UNIT Half	-time Show
4	BEHAVIORAL OBJECTIVES	STUDENT-CENTERED LEAR	ARNING ACTIVITIES
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Publications:

Band and Choral Guide, Carl Fischer of Chicago, 312 S. Wabash Avenue, Chicago, IL 60604 Band Cumulator, Sioux City Music Supply, 316 Commerce Building, Sioux City, Iowa 51101 The Show Band, The Instrumentalist Company

Audio-Visual:

Ccmmunity:

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSROOM (Continued)

- Spring-April Showers-April in June-June is Busting Out All Over (suggested formations, flower, heart)
 Summer-Yankee Doodle-Lazy Bones-Good Old
- Summer-Yankee Doodle-Lazy Bones-Good Old Summertime, -Summertime (suggested formations, fishing rod, firecracker)
- 6. Return to opening concert formation. Repeat opening music.
- Narration should complement formations and focus attention on the sun's impact and resulting seasons.



S. Ε. A. Title 111 **PROJECT** -C-E 59 70--0135 environment by people and promoting need for clean water animals. Participate in a demonstration a proper water supply. will illustrate several ways director. in interpreting our need for Demonstrate awareness of music animals. that water is used by men and in a manner acceptable to the Perform the Construct a formation that Skills Used: Affective: Cognitive BEHAVIORAL OBJECTIVES ORIENTATION CONCEPT NO. **Environmental:** Performance skills Marching skills Playing skills music and march Uses of Water 4 ı Water In-Class: A **B** 2. Suggested program:
1. Opening (form conwater on our everyday will be selected by particular effect of be identified with a instructor which will Band music arrangements life. tain giving impres-sion of a flow of water from fountain) of students at top Music: Cool Water. of drinking founwater could be ac-Move to formation tivated by motion that of a drinking cert formation). fountain (flow of Formation could be as necessary for symbolic of water Music (suggested human consumption. titles) The Water The Water. Is Wide, Wade In STUDENT-CENTERED LEARNING ACTIVITIES (Continued) SUBJECT Integrated with: TOPIC/UNIT Half-time Show Music -- Marching Band Α. Outside or Community: **B** Master list compiled music room - dry-inked on poster mounted in Each student researches and colorful. dealing with water. three song titles 19

Publications:

Carl Fischer of Chicago, 312 S. Wabash Avenue, Chicago, IL 60604

Pepper Master Reference Guide, J.W. Pepper of Detroit, 373 Minnesota Street, Troy, MI 43084

Ward Brodt Music Company, 315 N. Henry Street, Madison, WI

Audin - Mirual:

冷

Community

CONTINUED OR ADDED LEARNING ACTIVITIES

CLASSRCOM (Continued)

- Wove to formation of boat, ship, etc. to emphasize water as a source of recreation. Music: Cruising Down the River-Down By The Riverside-Row, Row, Your Boat.
- 4. Move to formation of umbrella (Emphasis on water falling from "heavens" etc.) Music: Raindreps Keep Falling etc.-April Showers.
- <u>ن</u> Conclude by returning to a concert formation.

 Music: Select titles to emphasize man's obligation to respect water as a necessity of life; man's obligation to keep it a natural resource. The Water Is Wide-Wade in the Water-Shanndadh.
- Note to the instructor:
 It will be necessary to have a narration to accompany program. It is suggested that students write the narration once the music to be used and formations have been decided upon.

-		T	DJECT I-C-E 59-	-700135	4	
Skills Used: 1. Playing skills 2. Marching skills 3. Performance skills	f t m	Affective: Show an awareness of how music can be used to interpret our need for proper air supply by his selection of songs to play.	could promote the improvement of air quality in his community.	Cognitive: erform the music in a macceptable to the directo	ORIENTATION Uses of Wind BEHAVIORAL OBJECTIVES	Environmental: CONCEPT NO. 5 - Air
for oxygenflame could fade out as narrations describe the reduction of oxygen and its effect on the flame. (Continued)	to impress oxygen in and its im a. Suggest tions: oil candle. (F	Music: Blowing in the Wind. Suggest some title quite popular, easily identified with air and wind. 2. Move into formation-	be identified with a particular effect by the wind (air) on our everyday life. B. Suggested program: 1. Opening - from concert formation at center of field.	Ř Ř Ř	TOPIC/UNIT Hall STUDENT-CENTERED LEA	Integrated with: SUBJECT Music
21			at	Outside or Community: A. Perform at high school game. B. Perform at college	Half-time Show LEARNING ACTIVITIES	sic - Marching Band

Community	Ardio-Visual:	Company, syanston, lilisots	ply, 315 Commerce ux City, Iowa Show Band, The Ins	Band and Choral Guide, Carl Fischer of Chicago	Publications:	SUGGESTED RESOURCES
	5. Constade with espect Josephion. Buggested music: Markard Wind To estima program to conclusion.	4. Formation of kite or parachute Suggested music: Drifting and Dreaming Let's Go Fly A Kite Impress that wind (air) has density.	Impress t	3. Formation of sailboat or windmill Suggested music: Sailing, Sailing	CLASSROON (Continued)	CONTINUED OR ADDED LEARNING ACTIVITIES

